CLAIMS

What is claimed is:

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- A light-emitting diode device, comprising a light-emitting diode die, a connection pin and a transparent envelop body, characterized in that the envelop body is a cylindrical body and a top surface of the envelop body being indented to form a conic concave or a polygonal concave with a tip angle between 100° to 140°.
 - The device of Claim 1, wherein the tip angle is 130° to 140°.
- The device of claim 1, wherein the envelop body has a color substantially the same as that of the light generated by the light-emitting diode die.
- 4. The device of Claim 1, wherein the connection pin has an internal end terminated with a frame for holding the light-emitting diode die and the frame forms a recessed space for accommodating the light-emitting diode die therein.
 - 5. A light-emitting diode device, comprising a light-emitting diode die, a connection pin and a transparent envelop body, characterized in that the envelop body is a cylindrical body and a top surface of the envelop body being indented to form a semi-spherical recess.
 - The device of claim 5, wherein the envelop body has a color substantially the same as that of the light generated by the light-emitting diode die.
 - 7. The device of Claim 5, wherein the connection pin has an internal end terminated with a frame for holding the light-emitting diode die and the frame forms a recessed space for accommodating the light-emitting diode die therein.